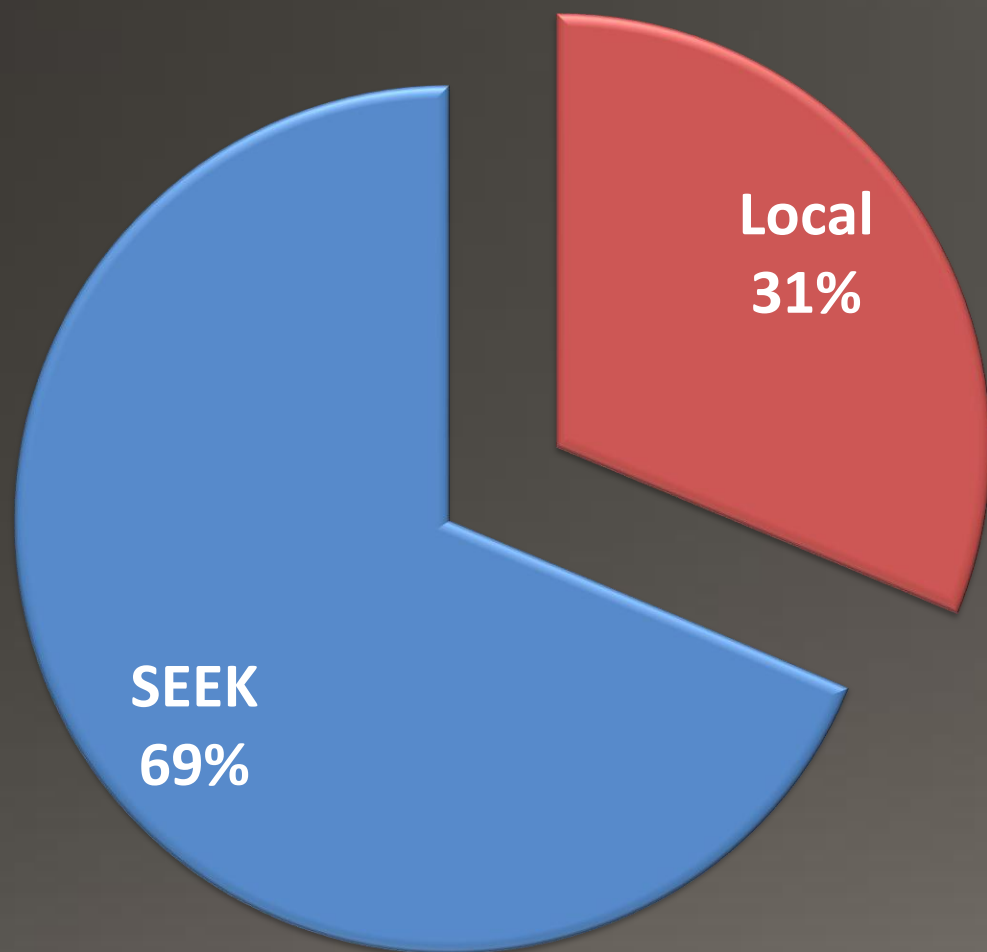


Tim Hockensmith, COO, Nelson County Schools

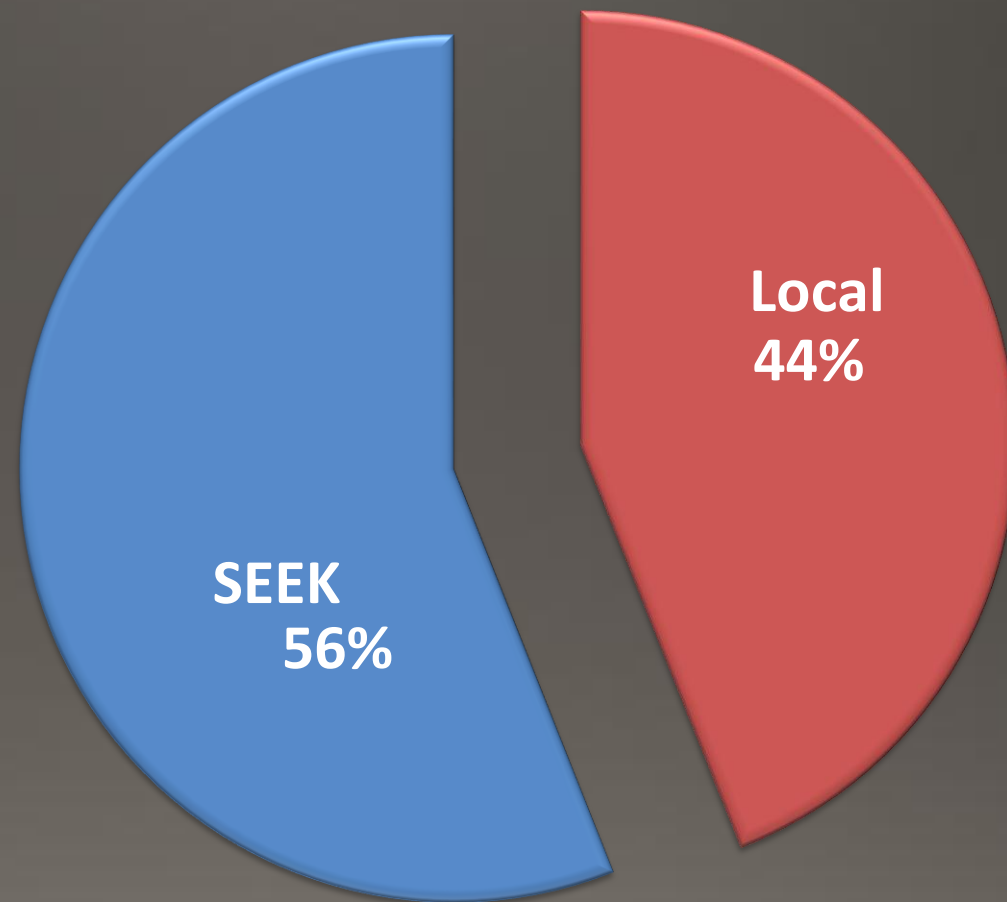
High Performance Renovation on a Budget



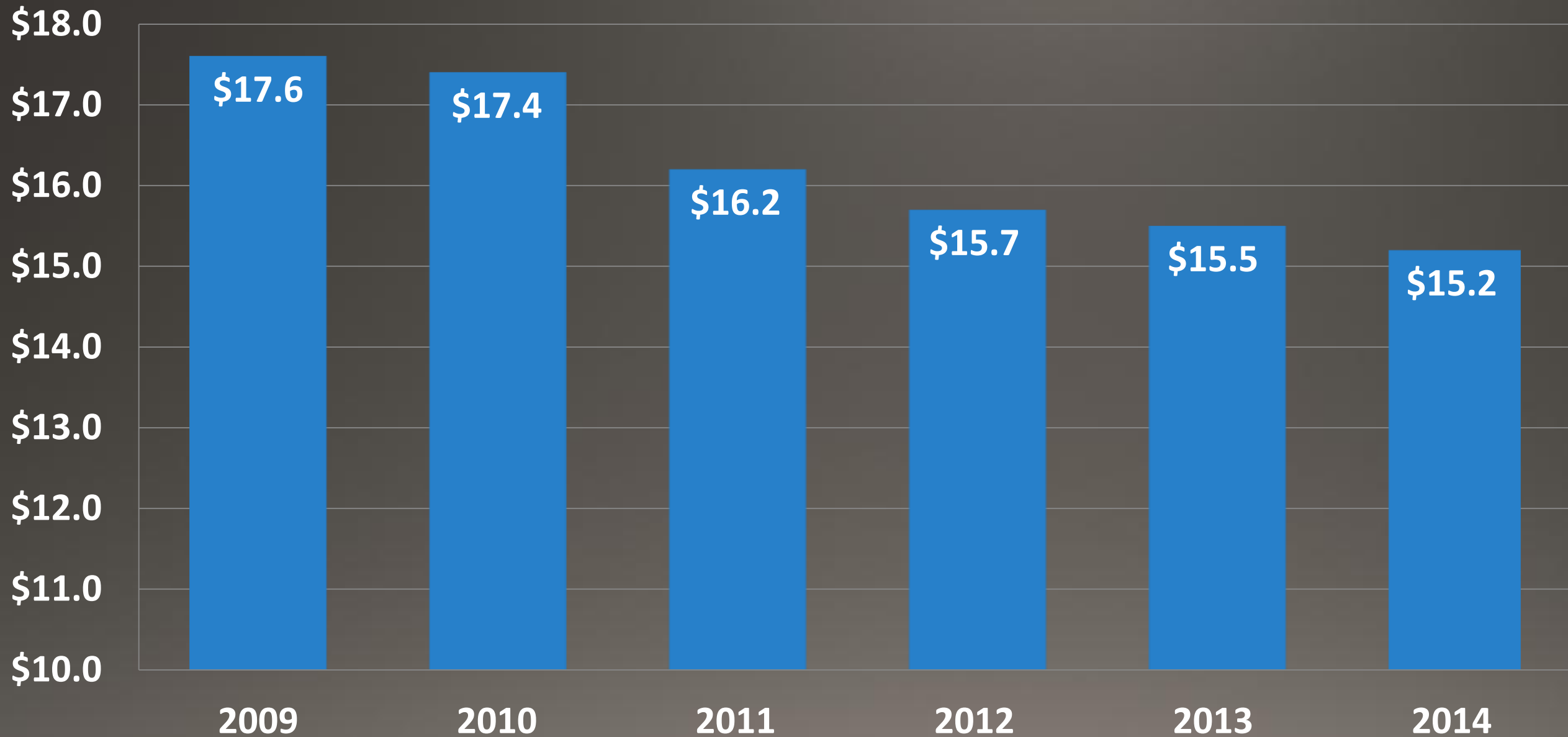
2009 General Fund



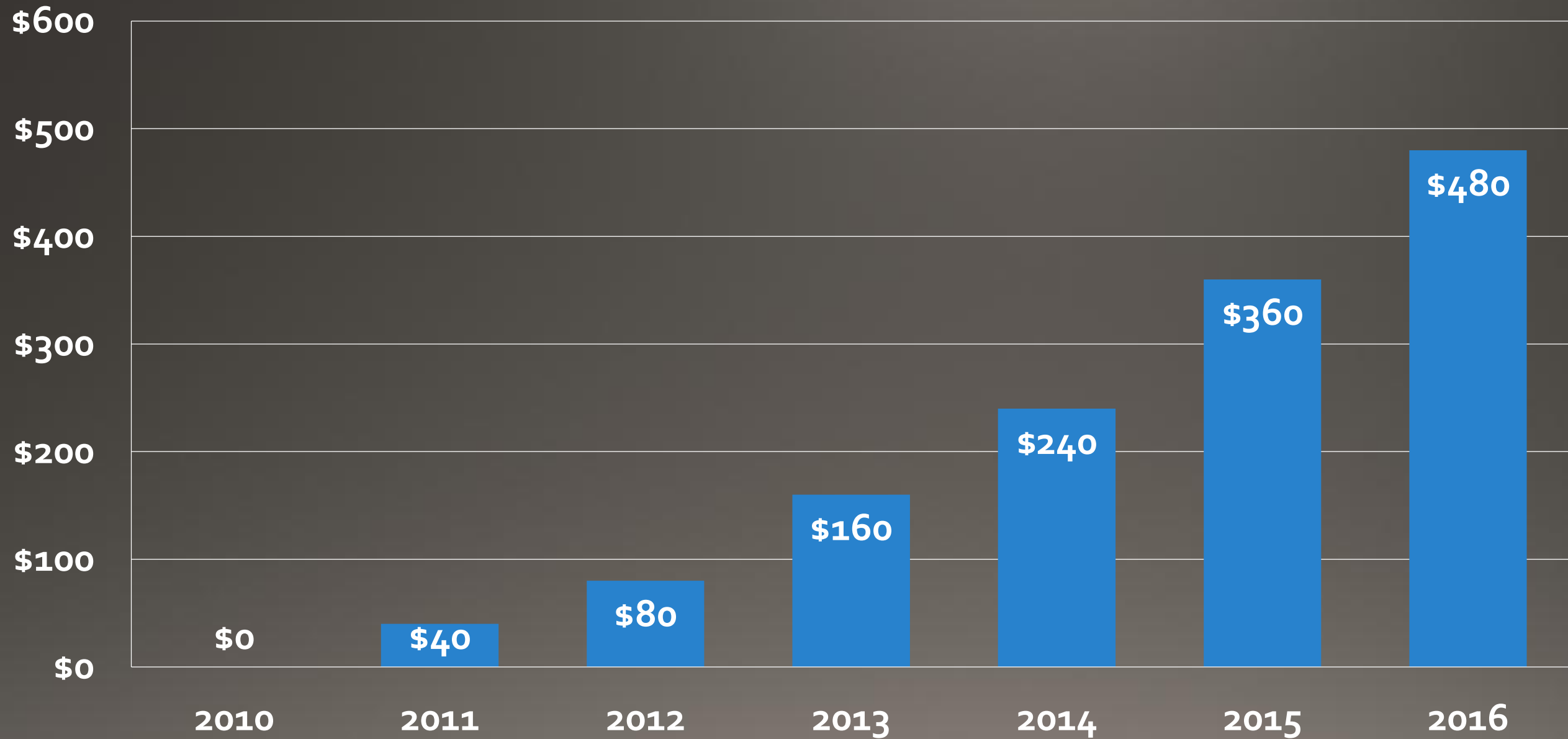
2013 General Fund



SEEK Funding (millions)



Certified Retirement Match (Thousands)



In 2000. . .

- Four transitional schools
- District wanted to avoid fifth school in category
- Innovative financing through QZAB Bond
- Our first district experience with geothermal HVAC
- Nearing *Energy Star* efficiency data

In 2001. . .

- Levied first growth nickel
- Allowed construction of two new schools
- Bloomfield Elementary
 - \$113/sq ft
 - Geothermal system
 - Allowed closing of two transitional schools
 - Schools sold as surplus
- Old Kentucky Home MS
 - Geothermal system
 - \$90/sq ft

In 2005. . .

- Second growth nickel added by school board
- State FSPK match of first growth nickel
- Replaced transitional school at Boston (\$145/sq ft)

On the same nickels. . .

- Renovated Foster Heights Elementary
 - *Energy Star*
 - 60 year old building
- Traded Old Kentucky Home Intermediate for ELC expansion space
- Construction of Thomas Nelson High School
 - *Energy Star*
 - Thought to be most energy efficient HS in the state
- All schools incorporated geothermal systems

In 2007. . .

- Contracted with EnergyEd (Cenergistic)
- Hired energy manager
- Total cost avoidance to date \$3.5 million

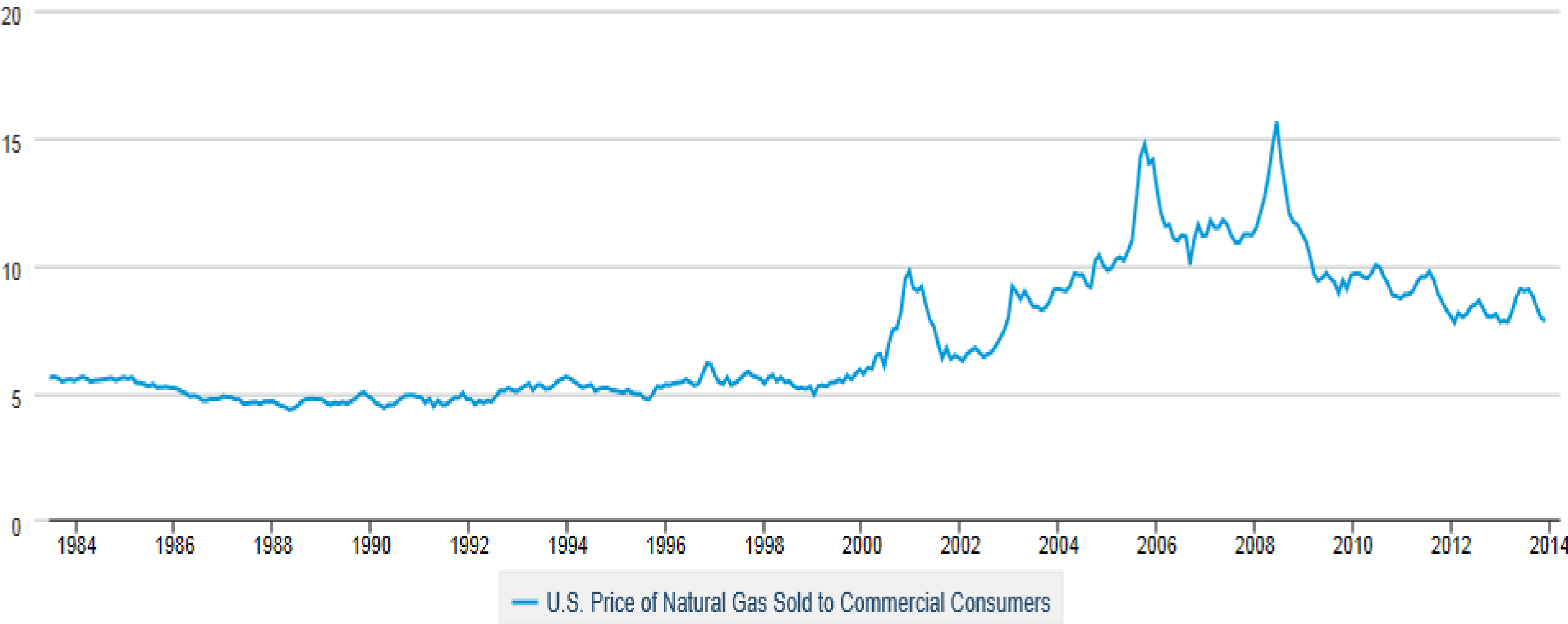
Benefits of geothermal systems

- Little access to natural gas
- Instability of propane market
- Low maintenance
- One type of system to maintain
- BES capacity to absorb BMS geo expansion

U.S. Price of Natural Gas Sold to Commercial Consumers

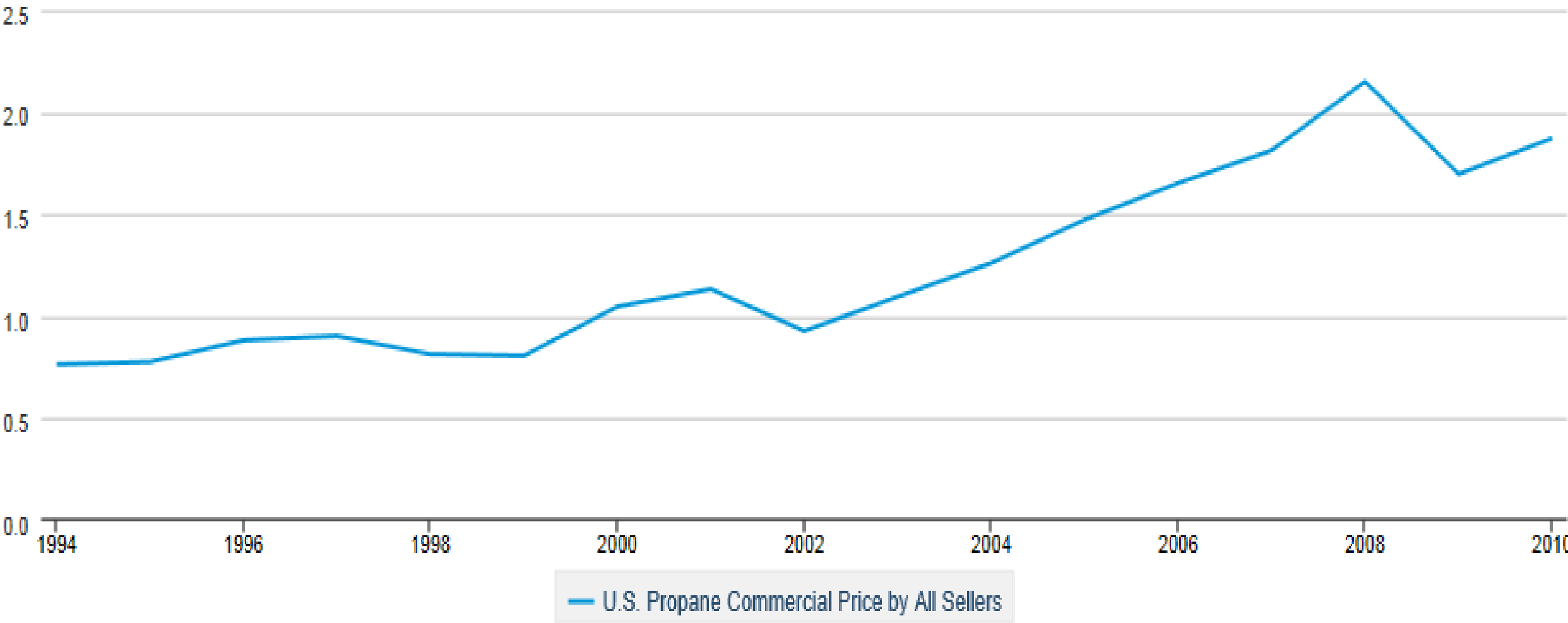


Dollars per Thousand Cubic Feet



U.S. Propane Commercial Price by All Sellers

Dollars per Gallon



Next steps

- Performance contract
- Cox's Creek Elementary
- Nelson County High School

Persistent people

- Superintendent and school board
- Central office staff
- Energy manager
- Maintenance staff

